CRITICAL ITEMS LIST

ASSY NOMENCLATURE: WEB ASSEMBLY CONTAINER

SYSTEM. CREW ESCAPE SYSTEM

REVISION:

ASSY P/N: SK1102441487

FMEA NAME,QTY		FAILURE MODE	FAILURE EFFECT ON END ITEM	RATIONALE FOR ACCEPTANCE
REF REV	DRAWING CRIT'Y REF DESIGNATION	AND CAUSE		
	WEB ASSEMBLY (7) CONTAINER, (1) SK1102441487	Mode:	Main chute deployment aborted	1. DESIGN FEATURES TO MINIMIZE FAILURE MODES a The rings are rated to 1,500 and 2,500 pounds. b The maximum foad on the rings is 1,200 pounds c The drogue release mechanism is used extensively in sky diving. d. The rings are heat treated steel e The rings provide a 10: I fever providing 200:1 mechanical advantage for release f. The base foop is nylon and certified in accordance with MIL-W-4088, type 8 2. TEST OR ANALYSIS TO DETECT FAILURE MODE a Acceptance Test (1) The smaller rings are proof loaded to 1,500 pounds (2) The farge rings are proof loaded to 2,500 pounds (3) Tensile test on webbing to a minimum breaking strength of 4,000 pounds on each roll of webbing b Certification Test. (1) Four durnmy drops at 110 knots, 2 at 10,000 feet, 2 at 25,000 feet (2) Four live water drop jumps (3) One 300 knot wind blast test

PREPARED BY: R. L. ALLISON, M. HERR

SUPERSEDING DATE: 1012416

. J. O. SCHLOSSER

DATE 817189

CRITICAL ITEMS LIST

ASSY NOMENCLATURE: WEB ASSEMBLY CONTAINER

SYSTEM: CREW ESCAPE SYSTEM

REVISION:

FMEA	NAME,QTY	CHIT'Y	FAILURE MODE AND CAUSE	FAILURE EFFECT ON	SUBSYSTEM: PERSONAL PARACHUTE ASSY. PAGE 5 OF 7
REF RE	DRAWING REF DESIGNATION			ENDITEM	RATIONALE FOR ACCEPTANCE
.4.1	WEB ASSEMBLY CONTAINER, (1) SK11024414B7		1.4.† Mode: Drogue release mechanism fails to deploy main chute Cause: • bent rings • excessive loads • defective material	Main chute deployment aborted	(4) Four dummy drops at 225 knots, 2 at 10,000 feet, 2 at 25,000 feet. (5) Eight live jumps at 110 knots, 4 at 10,000 feet, 4 at 6,000 feet. (6) Four live jumps at 170 knots, 15,000 feet. (7) Four live jumps at 185 knots, 20,000 feet. (8) Four live jumps at 200 knots, 25,000 feet. (9) The drogue attachment, 3-ring release is subjected to a 2,000 pound load, 2 drop tower tests. Turnaround Test. (In accordance with PIA 23028) The PPA will be unpacked, inspected, and repacked prior to each flight SPECTION Verify cross-sectional diameter of rings Verify dimensions for interference of rings Visually inspect for sharp edges, burrs, and defects. Visually inspect webbing for defects. Verify installation of drogue release mechanism is in conformance with drawings naround Inspection (In accordance with PIA 23028) The PPA will be unpacked, inspected, and repacked prior to each flight

PREPARED BY: R. L. ALLISON, M. HERR

SUPERSEDING DATE 10/24/00

BY. J. O. SCHLOSSER

DA1E. 817189

CRITICAL ITEMS LIST

ASSY NOMENCLATURE: WEB ASSEMBLY CONTAINER

SYSTEM: CREW ESCAPE SYSTEM

REVISION:

	CAL ITEM	LIJI	ASSYP/N: SK1102	441487 SUBSYSTEE STEELS
FMEA	NAME,QTY & CRIT'Y	FAILURE MODE AND CAUSE		SUBSYSTEM: PERSONAL PARACHUTE ASSY. PAGE 6 OF 79
REF REV	DRAWING CHIT Y REF DESIGNATION		END ITEM	RATIONALE FOR ACCEPTANCE
4 1	WEB ASSEMBLY CONTAINER, (1) SK1102441487	1.4.1 Mode: Drogue release mechanism fails to deploy main chute Cause: • bent rings • excessive loads • delective material	. .	b Verify dimensions for interference of rings c Visually inspect for sharp edges, burrs, and defects. d. Visually inspect webbing for defects e. Verify installation of drogue release mechanism is in conformance with drawings I. FAILURE HISTORY None. This assembly is in fleet use by the Navy DPERATIONAL USE a Operational Effect of Failure - Possible loss of life. b. Crew Action - None. c. Crew Training - Not applicable d. Mission Constraints - None. Mission would be terminated prior to use of this equipment e. In Flight Checkout - None.

PREPARED BY. R. L. ALLISON, M. HERR

SUPERSEDING DATE 1012418º

C. J. O. SCHLOSSER

DATE 817189